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Woodward-Clyde Consultants

Engineering & sciences applied to the earth & its environment

March 17, 1993
Project No. 904W380C

Mr. David Bacharowski
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, California 91574-2156

SUBJECT: 3G-DISTILLERY WELL ABANDONMENT PLAN, FORMER WEBER AIRCRAFT FACILITY, BURBANK, CALIFORNIA

Dear Mr. Bacharowski:

The following work plan presents procedures for abandonment (destruction) of a 12-inch diameter water well (3G-Distillery Well) located between the former locations of Buildings 206 and 207 at the former Weber Aircraft facility. Well abandonment is required of wells no longer in use as stated in Section 13800 of the California Water Code.

3G WELL DESCRIPTION

Files of the State of California Department of Water Resources (CDWR) were searched for well construction information on the 3G Distillery Well (well), however no well logs or aquifer test data were found. Some information is presented on a depth to water log from the Los Angeles Department of Water and Power (LADWP). The well as originally installed in 1936, had a reported total depth of 246 feet. The well is constructed of 12-inch diameter steel casing. The drilling method used to install the well is unknown, as are the locations of any screened or perforated casing intervals. It is not known if gravel pack was placed adjacent to the well screen.

The LADWP recorded water levels in the well from 1937 to 1956. The minimum depth to water recorded was 90.9 feet in June 1939. The well was reported as dry at depths ranging from 121.5 to 125 feet from November 1949 to May 1952. The limited depths of these soundings suggests that the well became plugged prior to November 1949. The well was continued to be reported as dry (with no depths listed) until August 1956 when

2020 East First Street, Suite 400 Santa Ana, California 92705
(714) 835-6886 (213) 581-7164 Fax (714) 667-7147

observations were discontinued. Water level data collected from monitoring wells SW-1 through SW-5 suggest that the depth to water at the well is currently about 210 to 220 feet. A copy of the water level record is attached to this letter.

A downhole video survey of the well conducted by Welenco Video Surveys of Bakersfield, California on January 10, 1991 revealed the presence of debris consisting of pieces of 2" X 4" wood and metal at a depth of approximately 113 feet, and that the well was completely plugged by the debris at a depth of 116 feet.

Subsequent to the video log, the well was probed with a 5-foot long, 3/8-inch diameter steel rod attached to a cable, and refusal was encountered at depths between 117 and 119 feet. The well appeared to be in good condition above the 116-foot depth.

Logs of five groundwater quality monitoring wells at the former Weber facility indicate that the soils in the vicinity of the well are primarily sands and gravels, with occasional cobble to boulder-sized material.

PERMITTING AND NOTIFICATION REQUIREMENTS

Prior to abandoning the well, two applications are required to be filed with the Los Angeles County Department of Health Services. These include an application for well permit, and a service application and fee collection form. These applications have been completed and are attached to this letter. Also, the San Fernando Valley Watermaster will be notified verbally and in writing prior to implementing the abandonment.

WELL ABANDONMENT PROCEDURES

Well abandonment will be conducted in accordance with the State of California Department of Water Resources Bulletin 74-90, "Water Well Standards: State of California." Well abandonment will consist of:

1. Debris removal

2. Video logging the well to identify perforated intervals

3. Mechanically perforating blank well casing to within 80 feet of ground surface

4. Well grouting

Details of the abandonment are described below.

Prior to well abandonment, debris present in the well will be removed if possible. Initially, air lifting and/or bailing will be used for removal of debris. If air lifting and/or bailing does not remove the debris from the well, an auger rig will be used to remove the debris. If the debris cannot be removed with the auger rig, the well will be abandoned with the debris remaining in the casing.

After debris removal, if successful, video well logging will be conducted to locate screened or perforated sections of the well casing. The video logging will provide real-time viewing of the well casing. The log will be recorded on a video cassette. The presence of very turbid water in the well bore may inhibit use of the video log. If these conditions exist, the suspended solids in the well will be allowed to settle for about 24 hours prior to video logging.

The well will be abandoned by perforating the well casing, where accessible, and pressure grouting the well. Prior to perforating and grouting, the depth to groundwater will be measured using an electric water level sounder and will be recorded. The total depth of open casing will be measured using a weighted probe.

Sections of blank casing longer than 20 feet that are identified by the video log will be perforated to within 80 feet below ground surface prior to grouting. Perforations will be mechanically cut or punched through the well casing. It is anticipated that the perforations will consist of approximately one row per foot, with each row consisting of four equidistant openings approximately 1.5 inches long.

Prior to grouting, the top 5 feet of the well casing will be excavated and then removed by cutting. The well will be sealed by lowering a tremie pipe to about 3 feet above the bottom of the well casing, and then pumping grout into the well until the entire casing is filled. The tremie pipe will be removed and the grout allowed to settle overnight. The following day, the casing will be refilled with grout to the top of the casing. The grout will be allowed to spill over the casing to form a cap (Figure 1). After the grout

sets, the excavation will be backfilled with native soil. During periods when work is not being conducted on the well, the area will be barricaded and the excavation covered. A cement/bentonite grout mixture (4% bentonite by volume) will be used to seal the well. The purpose of the bentonite is to reduce grout shrinkage, thereby increasing the integrity of the seal.

It is currently anticipated that Howard Pump, Inc., of Barstow, California, a California-licensed well driller will conduct well abandonment procedures. A water sample will not be collected prior to perforating and grouting the well.

RECORD KEEPING

A record of the abandonment procedures will be maintained in the field in a bound notebook. The information that will be recorded will include:

1. Date, time, depth to water, driller, equipment, decontamination procedures, personnel on-site, and site supervisor

2. Description of debris removed from the well and approximate depths.

3. Depths of screened and/or perforated intervals as shown by the video log. In addition, corroded casing sections, broken casing joints, etc., will be recorded.

4. Composition of grout.

5. Volume of grout placed in the well.

6. Sketch of well cap construction.

Following completion of the abandonment, a report will be prepared that contains a description of the field activities, copies of the field records, and a graphic log of the abandoned well that shows the locations of screened and/or perforated sections. The report will be provided to the California Regional Water Quality Control Board - Los Angeles Region, the Los Angeles County Preventive/Public Health Services Department, and the San Fernando Valley Watermaster.

If you have any questions regarding this work plan, please call Andy Zdon or myself at (714) 835-6886.

Very truly yours,

WOODWARD-CLYDE CONSULTANTS

Robert L. Traylor
Project Manager

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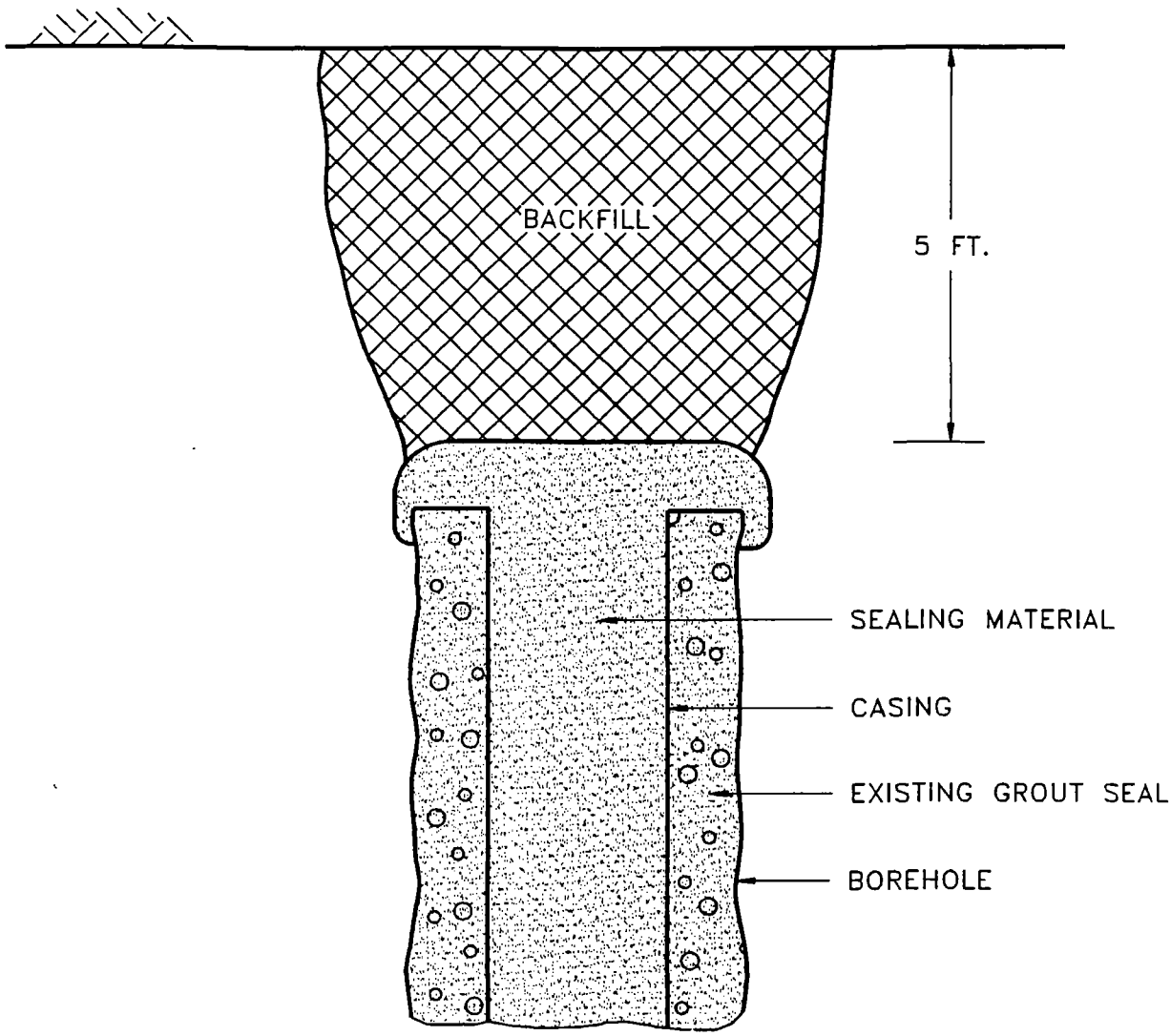


WELL CAP CONSTRUCTION

Project No.: 904W380C	Date: MARCH 1993	Project: WEBER	Fig. 1

W-WCAP

Woodward-Clyde Consultants

2M 2-49 P.O.33435

DEPARTMENT OF WATER & POWER--HYDROLOGIC SECTION

DATE	W. S. ELEV.	REMARKS	DATE	W. S. ELEV.	REMARKS
3-17-49	585.54'				
11-16-49	-	Dry @ 122.5'			
11-16-51	DRY@125'	L. A. Co. F. C. D.			
5-5-52	DRY@124.5	"			
11-18-52	— DRY	"			
4-29-53	DRY	"			
12-14-53	DRY	"			
4-13-54	DRY	"			
1957	DRY				
8- -56	-	No Further Readings			

GROUND SURFACE ELEVATION- 700.8' (F.B.2502-44)
MAXIMUM WATER SURFACE ELEVATION- (6-22-39) 610.14'
MINIMUM WATER SURFACE ELEVATION- (12- 1-48) ~~582.99~~ DRY @ 578.5
REFERENCE POINT ELEVATION- 701.04'
REFERENCE POINT DESCRIPTION- Top of casing

LOG- None DEPTH- 246' DRILLED- June, 1936 DRILLER- Cluggage
USE- Industrial SIZE OF PIPE- 12"
RECORD BEGAN- 1- 5-37 RECORD ENDED- ~~12-19-40~~ AUG 1956
4-10-47 OWNER- "Three G" Distillery
CO-ORDINATES- 49-5.67-9.63

LOCATION NO.	D.W.R. NO.	D.W.P. NO.	LOCATION-
4959D	A-43b	457	Burbank 274' N. ℄ (Produced) Tulare St., 125'E ℄ Ontario St.

PLICATION FOR WELL PERMIT

VIRONMENTAL HEALTH 2525 Corporate Place Monterey Park, Ca 91754

UNTY OF LOS ANGELES DEPARTMENT OF HEALTH SERVICES

DATE: March 5, 1993

TYPE OF PERMIT (CHECK)

- ☐ NEW WELL CONSTRUCTION
- ☐ RECONSTRUCTION OR RENOVATION
- ☒ DESTRUCTION

TYPE OF WELL

- ☐ PRIVATE DOMESTIC
- ☐ PUBLIC DOMESTIC
- ☐ IRRIGATION
- ☐ OBSERVATION/MONITORING
- ☐ CATHODIC
- ☒ INDUSTRIAL
- ☐ GRAVEL PACK
- ☐ TEST

TYPE OF CASING: 12-inch steel

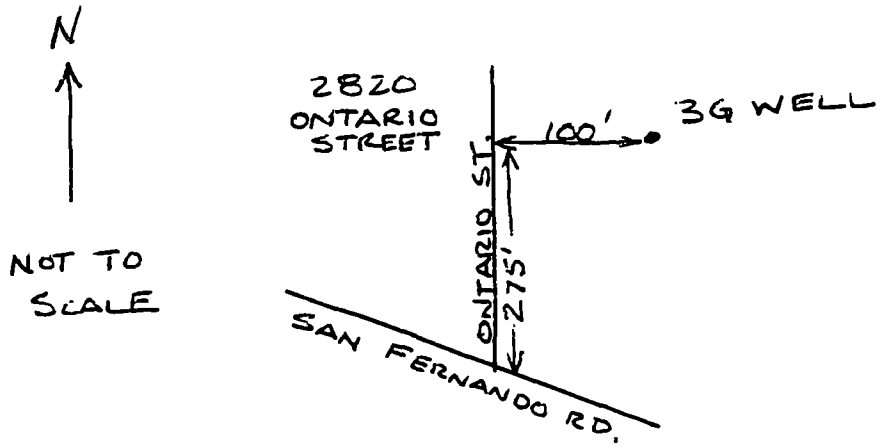
METHOD OF SEALING OF CASING:

METHOD OF DESTRUCTION: Perforate entire depth of well, pressure-grout with cement/bentonite mixture (4% bentonite by volume), tremmie into place.

ADDRESS (NUMBER, STREET, AND NEAREST INTERSECTION): 2820 Ontario St., Burbank nr. corner of San Fernando Road

CITY: Burbank, Calif.

DIAGRAM (SHOW PROPERTY LINES, STREET, ADDRESS, WELL SITE, SEWERS, AND PRIVATE SEWAGE DISPOSAL SYSTEMS ALONG WITH LABELS AND DIMENSIONS)



NAME OF WELL DRILLER (PRINT): Howard Pump, Inc.

TRADE NAME:

BUSINESS ADDRESS: P.O. Box 1249 CITY: Barstow, Calif. 92312-1249

NAME OF WELL OWNER (PRINT): PH Burbank Holdings, Inc.

MAILING ADDRESS: 99 Wood Avenue South

CITY: Iselin, NJ 08830

I hereby agree to comply in every respect with all regulations of the County Preventive/Public Health Services and with all ordinances and laws of the County of Los Angeles and of the State of California pertaining to well construction, reconstruction and destruction. Upon completion of well and within ten days thereafter, I will furnish the County Preventive/Public Health Services with a complete log of the well, giving date drilled, depth of well, all perforations in casing, and any other data deemed necessary by such County Preventive/Public Health Services.

Applicant's Signature

DISPOSITION OF APPLICATION: (For Sanitarians Use Only)

- ☐ APPROVED
- ☐ DENIED
- ☐ APPROVED WITH CONDITIONS

If denied or approved with conditions, report reason or conditions here:

DATE	SANITARIAN
DATE	SECTION CHIEF

When signed by Section Chief, this application is a permit.

6A668
1-13 (Rev 3/91)

Please Return All Copies

SERVICE APPLICATION AND FEE COLLECTION
COUNTY OF LOS ANGELES - DEPARTMENT OF HEALTH SERVICES
PUBLIC HEALTH PROGRAMS - ENVIRONMENTAL HEALTH

SERVICE REQUEST APPLICATION

INSTRUCTIONS

1. Check the TYPE OF SERVICE requested and attach the required non-refundable fee to the application. Make money order or check payable to LOS ANGELES COUNTY TREASURER, DO NOT SEND CASH. This application is nontransferable.

FEE REQUIRED*		TYPE OF SERVICE
_____	☐	MONITORING WELL CONSTRUCTION/DESTRUCTION
_____	☒	WELL CONSTRUCTION, RENOVATION OR DESTRUCTION PERMIT Complete and attach a Well Permit Application
_____	☐	PRIVATE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT
_____	☐	PRIVATE SEWAGE DISPOSAL SYSTEM RENOVATION/EXPANSION
_____	☐	INSPECTION OF MOUNTAIN CABIN SITE as required by the United States Forest Service
_____	☐	INSPECTION OF EXISTING PRIVATE SEWAGE SYSTEM as required by FHA/VA
_____	☐	WATER SUPPLY TEST AND CERTIFICATION as required by U.S. Department of Agriculture

2. Check with Contact Office stamped below for requirements or information.
3. Complete the required information or deliver the completed application, money order or check with the forms indicated.

to: County of Los Angeles
Department of Health Services
Public Health Programs
Environmental Health
2525 Corporate Place
Monterey Park, Ca 91754
(213) 881-4147

*Refer to Schedule of Fees for current fiscal year.

NOTE: FIELD PERSONNEL CANNOT ACCEPT FEES.

4. Phone Contact Office noted below, after you have received your receipt, to request an inspection.

2820 Ontario Street, Burbank, Calif. 91504
Service/Job Location Address — Date

PH Burbank Holdings, Inc. 99 Wood Avenue South, Iselin, NJ 08830 (908)603-6621
Owner/Applicant's Name — Address — Phone No.

Woodward-Clyde Consultants 2020 E. First St., Su.400, Santa Ana, CA 92705 (714) 835-6886
Contractor's Name — Address — Phone No.

Co. Engineer Plan Check No. n/a Tract No. n/a Lot No. n/a No. Bedrooms n/a
(Complete line above for Private Sewage Disposal System Construction or Renovation Application)

CONTACT OFFICE	DEPARTMENT STAMP